



(12) **United States Patent**
Monti

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(54) **DEVICE FOR TRANSFERRING
PHARMACEUTICAL ARTICLES FROM A
COUNTER TO INSIDE CONTINUOUSLY
ADVANCING CONTAINERS AND A
MACHINE FOR PACKING
PHARMACEUTICAL ARTICLES IN
RELATIVE CONTAINERS**

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,028,713 A 4/1962 Kennedy et al.
3,064,406 A 11/1962 Kennedy et al.
(Continued)

FOREIGN PATENT DOCUMENTS

GB 983885 A * 2/1965 B65B 61/22
WO WO 2011/028103 A1 3/2011

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CPC **A61J 1/03** (2013.01); **B65B 5/103**
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57/20 (2013.01)

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CPC B65B 1/06; B65B 5/103; B65B 35/32; B65B
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(57) **ABSTRACT**

The device (D) for transferring pharmaceutical articles from a counter to inside containers (C), continuously advancing along an advancement direction (V), comprises a first series of tubular elements (T1) and a second series of tubular elements (T2) having dimensions such as to be able to freely receive the pharmaceutical articles internally thereof. The first series of tubular elements (T1) and the second series of tubular elements (T2) are movable independently of one another along respective pathways that each exhibit a development such that each of the tubular elements (T1) of the first series and each of the tubular elements (T2) of the second series can transit below and at the outlet (U) of the counter (MC) such as to receive the counted articles, and further can transit above the mouth of a respective container (C) advancing continuously along the advancement direction (V) and follow the advancement of the container (C) while remaining above the relative mouth for a straight tract (V1) along the direction (V), so as to release the articles internally thereof.

4 Claims, 8 Drawing Sheets

